



CENTRAL EDUCATIONAL CONSULT

MATHEMATICS EXAMINATION

PRIMARY SIX SET ONE TERM II 2024

Time Allowed: 2 Hours 30 Minutes

Name: _____

School: _____

Read the following instructions carefully.

1. This paper has two sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions (**60 marks**)
2. All the working for both sections **A** and **B** must be shown in the spaces provided.
3. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than graphs and diagrams will not be marked
4. **No calculators** are allowed in the examination room
5. Unnecessary changes of work may lead to loss of marks.
6. Any handwriting that cannot be easily read may lead to **loss of marks**.
7. Do not fill anything in the boxes indicated: "**For Examiner's Use Only**" and those inside the question paper.

"FOR EXAMINER'S USE ONLY"		
Qn. No.	MARKS	EXR'S NO.
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

PREPARED BY,



CENTRAL EDUCATIONAL CONSULT

SECTION A. (40 MARKS)

1. Workout: 32×3

6. Find the value of y in the diagram below.



2. What number has been expanded:
 $30000 + 500 + 8?$

7. A trader bought a dozen of pens for sh. 6000 and he later sold each pen at sh. 600. Calculate his profit.

3. Write **XCIV** in Hindu Arabic numerals.

8. Simplify: $3x - 2y + x + 3y$

4. Given that Set $K = \{a, b, c, d, e\}$ and Set $M = \{b, u, d, g, e, f\}$, find $n(K \cup M)$

9. Divide 1515 by 5.

5. Round off **26931** to the nearest thousands.

10. Workout: $\frac{1}{2} + \frac{2}{3}$

<div data-bbox="47 53 103 145" data-label="Text"> <div>11</div> <div>dia</div> </div> <div data-bbox="159 53 718 156" data-label="Text"> <p>What evening time is shown on the clock face below?</p> </div> <div data-bbox="239 179 446 403" data-label="Image"> </div>	<div data-bbox="782 53 837 145" data-label="Text"> <div>15</div> </div> <div data-bbox="845 53 1404 224" data-label="Text"> <p>Use a protractor to measure the size of the acute angle RWF shown below.</p> </div> <div data-bbox="925 224 1212 537" data-label="Image"> </div> <div data-bbox="1324 492 1420 582" data-label="Form"> <input type="text"/> </div>
<div data-bbox="47 582 103 660" data-label="Text"> <div>12</div> <div>en</div> <div>ac</div> <div>fit</div> </div> <div data-bbox="159 582 446 627" data-label="Text"> <p>Simplify: 3×6.</p> </div>	<div data-bbox="782 582 837 660" data-label="Text"> <div>16</div> </div> <div data-bbox="845 582 1404 672" data-label="Text"> <p>Arrange the intergers 3, 4, 0 and 1 in a descending order.</p> </div>
<div data-bbox="47 963 103 1052" data-label="Text"> <div>3</div> </div> <div data-bbox="159 963 718 1052" data-label="Text"> <p>How many 50cm pieces can be cut from a 2 metre wire?</p> </div>	<div data-bbox="782 963 837 1052" data-label="Text"> <div>17</div> </div> <div data-bbox="845 963 1404 1097" data-label="Text"> <p>Given that a = 45 and b = 9, find the value of $\frac{a}{b}$</p> </div>
<div data-bbox="47 1478 103 1568" data-label="Text"> <div>4</div> </div> <div data-bbox="159 1478 718 1635" data-label="Text"> <p>Dauda used 25 litres of juice to fill quarter litre bottles. How many bottles did Dauda fill?</p> </div>	<div data-bbox="782 1478 837 1568" data-label="Text"> <div>18</div> </div> <div data-bbox="845 1478 1404 1590" data-label="Text"> <p>Find the next number in the sequence.</p> </div> <div data-bbox="845 1635 1404 1702" data-label="Text"> <p>100, 81, 64, 49, _____</p> </div>

- 19 The table below shows the number of pupils in the four classes

Class	P.4	P.5	P.6	P.7
Number of classes	48	57	40	35

Workout the average enrolment per class.

- 20 Workout:

Weeks	Days
3	4
+ 2	3

SECTION B. (60MARKS)

- 21 Below is a 3×3 magic square. Complete it correctly.

(05marks)

3	_____	1
_____	4	_____
7	_____	5

- 22 Abigira bought the items in the table below from a shop.
(a) Complete the table correctly.

(04marks)

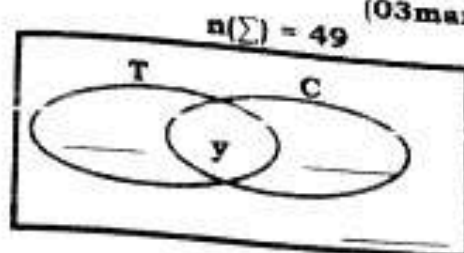
Item	Quantity	Unit cost	Amount
Sugar	3kg	Sh. 6000 per kg	Sh. _____
Soap	_____ bars	Sh. 3500 per bar	Sh. 14000
Bread	2 loaves	Sh. _____ per loaf	Sh. 11000
Total expenditure			Sh. _____

- (b) If Abigira had gone with sh. 50000, calculate her change.

(01mark)

- 23 In a village of 49 farmers, 20 grow coffee (C), 25 grow tea (T) and y grows both coffee and tea. 6 farmers grow neither of the two cash crops.

(a) Use the information given above to complete the venn diagram below. (03marks)



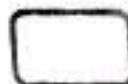
(b) Find the value of y . (02marks)

(c) How many farmers grow one kind of crop only? (01mark)

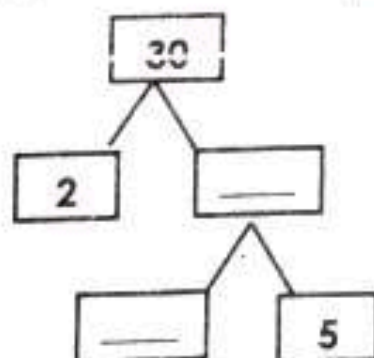
- 24 (a) Write the place value of 3 and 1 in 301_{five}. (02marks)

(b) Workout: 3 1 2_{five} (02marks)

$$\begin{array}{r} - 14_{\text{five}} \\ \hline \end{array}$$

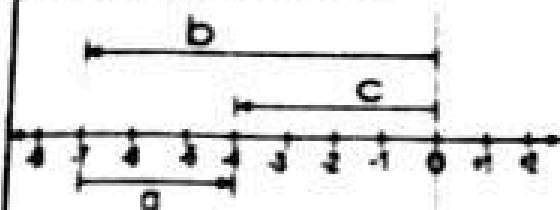


- 25 (a) Fill in the missing prime factors in the factor tree below. (02marks)



- (b) Workout: $(39 \times 51) + (49 \times 39)$ (02marks)

- 26** Use the number line below to answer the questions that follow



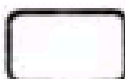
- (a) Write the integers represented by arrow
(01 mark each)

(i) **a** _____

(ii) **b** _____

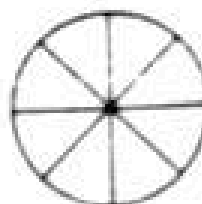
(iii) **c** _____

- (b) Write the mathematical statement shown by arrows on the number line above.
(02 marks)



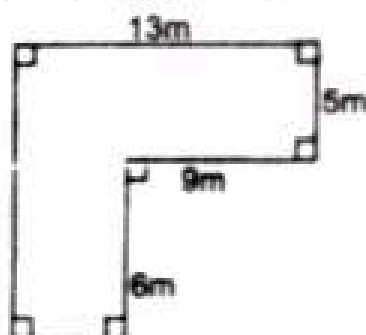
- 27** (a) Find the **tenth** equivalent fraction for $\frac{5}{7}$
(02 marks)

- (b) Shade $\frac{1}{4}$ of the diagram below
(02 marks)



- (c) Simplify: $3 - 4.72 + 2.4$. (02 marks)

- 28** Below is a piece of land owned by a poultry farmer. Use it to answer the questions that follow



- (a) Find its perimeter. (02 marks)

- (b) Calculate its area. (03 marks)



29

In a village of 1000 people, $\frac{3}{4}$ are females and the rest are males.

(a) How many males are there? (03marks)

(b) How many more females than males are there? (02marks)

30

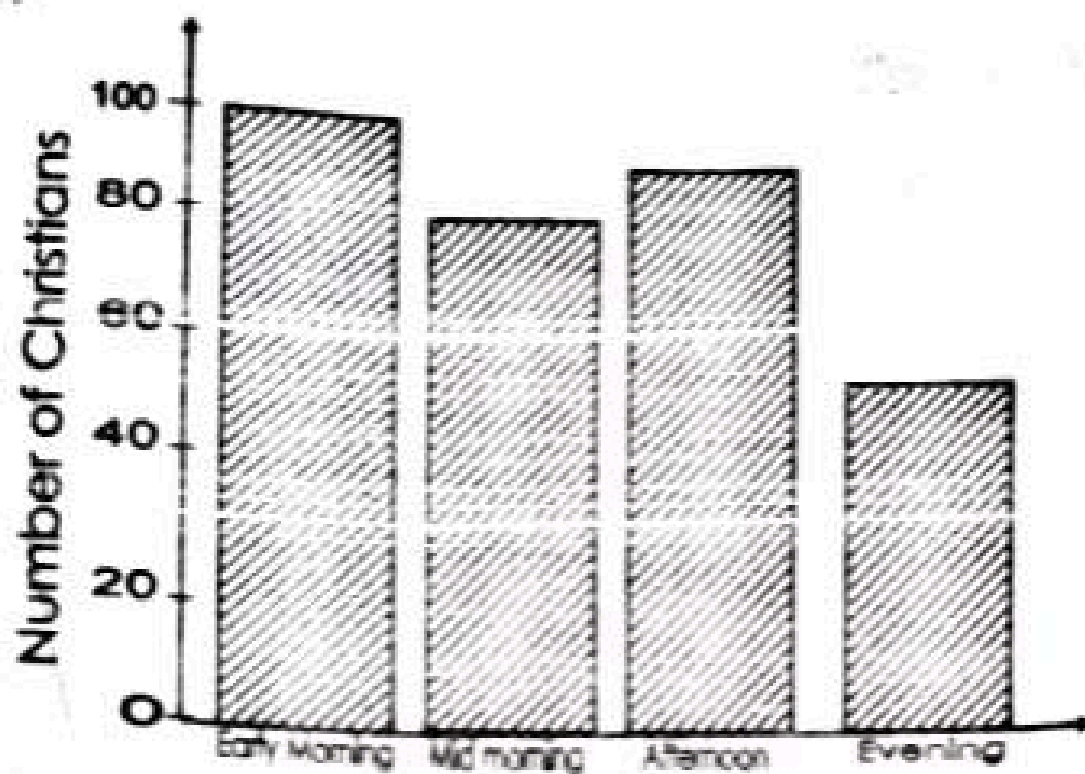
Using a ruler, a pencil and a pair of compasses only, construct a rectangle PQRS where line $PQ = 7\text{cm}$ and $QR = 4\text{cm}$. (05marks)

31

(a) Kamanda travelled a distance of 100km at a speed of 50km/h. Calculate the time it took him. (02marks)

(b) At what speed must a driver travel to cover a distance of 280km in $2\frac{1}{2}$ hours? (03marks)

The bar graph below shows the number of Christians who went for prayers in a day.



- (a) Which service was attended by 80 Christians? (01mark)
- (b) Which service had the least attendance? (01mark)
- (c) Find the number of christians who attended the first service. (01mark)
- (d) Find the average attendance for the day per service. (02marks)



-END-